INTELLIGENT DIAPHRAGM PUMPS
CONTROLLABLE

OVERVIEW

- Adjustment range 1:1000
- Controlled by a microprocessor
- Flow rates from 20 ml/h to 50 l/h
- Counterpressure up to 10 bar
- Slow Mode
- Timer- and batch-function
- Intuitive navigation
- 2 control versions
- Remote control
- Robust, corrosion-resistant housing

24 h DELIVERY

TECHNICAL DATA

PUMP DATA			iSTEP S 20	iSTEP S 30	iSTEP S 40	iSTEP S 50
Permissible pressure p2max. at the pump outlet	bar		10	7	6	3
Nominal capacity QN at p2 max.	l/h	50/60 Hz	20	30	40	50
Capacity min. (1:1000)	l/h	50/60 Hz	0,02	0,03	0,04	0,05
Capacity min. (1:100)*	l/h	50/60 Hz	0,2	0,3	0,4	0,5
Quantity per stroke	ml/stroke	(100%)	1,75	3,33	3,51	4,39
Max. suction height	mWC		3	3	3	3
Min./max. permissible pressure at the pump inlet	bar	$p_{1min/max}$	-0,3/0,5	-0,3/0,5	-0,3/0,5	-0,3/0,5
Recommended DN of the connecting pipes	mm		5	5	5	8
Nominal stroke frequency	1/min	50/60 Hz	190	150	190	190
Weight approx.	kg	plastic	7,3	7,3	7,3	7,4
		stainless steel	7,9	8,5	8,5	8,7
		stainless steel (CIP)	9,0	11,7	11,7	11,8

ELECTRICAL DATA		iSTEP S...
Power consumption	W	75
Voltage	V	110 - 240 AC
Frequency	Hz	50/60
Insulation class	ISO	F
Recommended fuse	(circuit breaker)	C10A
Enclosure		IP65

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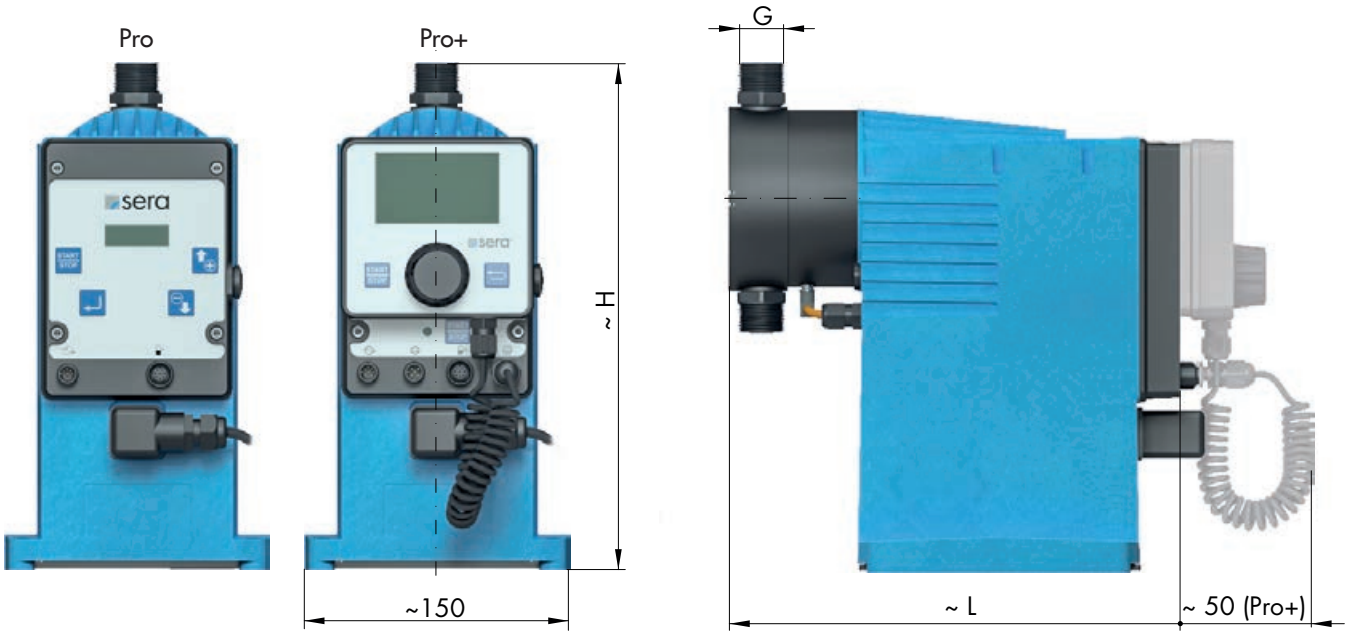
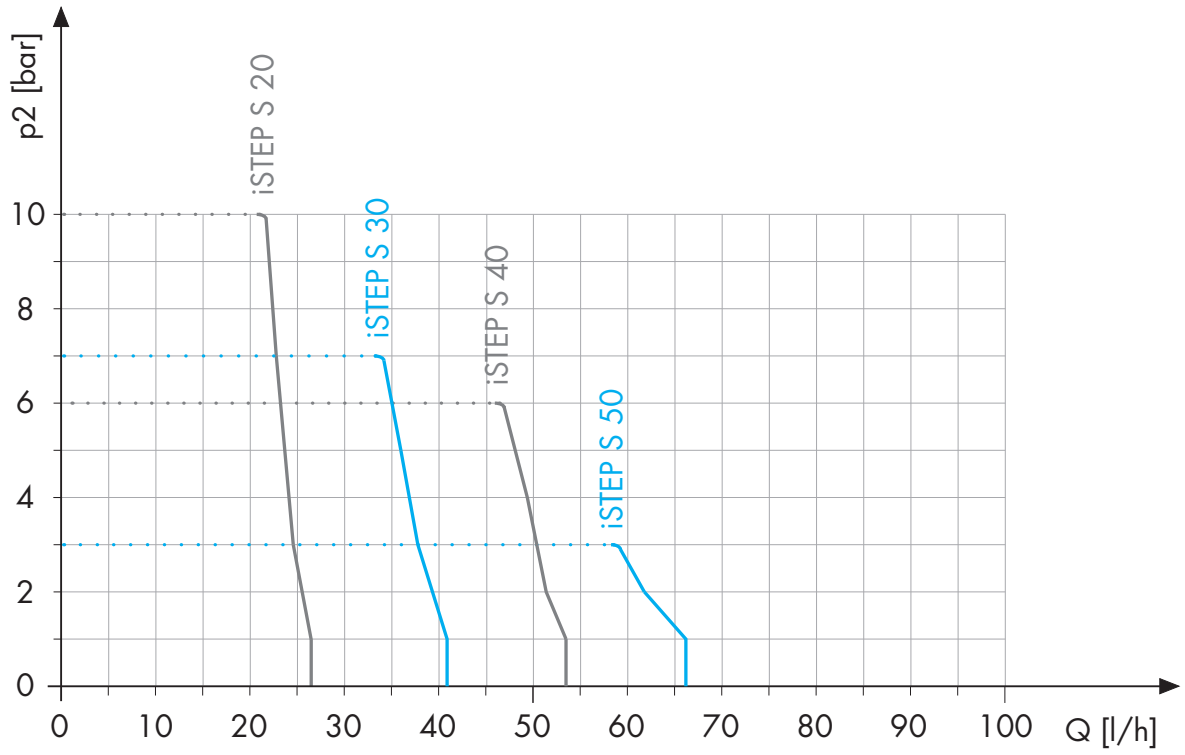
DIMENSIONS



	G	▶	L	H	▶	L	H
iSTEP S 20	G ¾	PVC, PP, PVDF	270	275	1.4571	270	275
iSTEP S 30	G ¾		275	282		275	282
iSTEP S 40	G ¾		275	282		275	282
iSTEP S 50	G ¾		275	286		275	286

CHARACTERISTIC CURVES



INTELLIGENT DIAPHRAGM PUMPS
CONTROLLABLE

FUNCTIONS AND OPERATING MODES

- Extremely wide performance range
- Adjustment range 1:1000 thus optimally adoptable
- Low pulsation dosage
- Drive controlled by microprocessor
- Slow mode for viscous media
- Energy-efficient drive technology
- Intuitive menu navigation incl. parameterization
- Pulse division or multiplication
- Different languages for the menu
- Certified accord. to TR (EAC)
- different digital/analogue Inputs
- 2 Digital outputs
- 3m cable with euro plug

Operating Modes & Messaging	Pro	Pro+
Manual	✓	✓
Pulse	✓	✓
Analogue	✓	✓
Batch	✗	✓
Timer	✗	✓
Interface	✗	✓
Calibration	✓	✓
Slowmode	✓	✓
Suction mode	✓	✓
Diaphragm monitoring	✓	✓
Data logging (SD-Card	✗	✓
Error messaging	Error Code + display color change	Plain text + display color change
Clock for data & time	✗	✓

Connection & Control	Pro	Pro+
Control elements & Display	4-button control	Removeable handheld with two buttons and clickwheel
	Multilangual display	Display with 8 languages (de, en, es, fr, nl, cs, fi, tr)
	4-color status indicator	4-color status indicator
Control cable	optional	5m control cable (8-pole)
In-/Output connection	✓	✓
Level connection	✓	✓
Flow monitor & measurement connection	✗	✓
Profibus / Profinet	✗	optional
Inputs	Digital pulse (NO/NC)	Digital/analogue, free parametrizable
	Digital extern stop (NO/NC)	Digital/analogue, free parametrizable
	Analogue 4-20mA	Digital, free parametrizable
Outputs	24V	24V
	Ready to run (NO/NC)	Digital, free parametrizable
	Stroke signal (NO/NC)	Digital, free parametrizable
		Analogue, free parametrizable
Updateable	USB (Stick)	USB (to host)

● basic version ❍ available without extra charge ⊘ not available ◑ on request

Subject to technical modification!

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